AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

Claims 1-4 (Cancelled)

- (Currently Amended) The apparatus of Claim [[1]] 44 wherein said biasing element is a spring.
- 6. (Currently Amended) The apparatus of Claim [[1]] 40 wherein said positional pressure forming steel assembly comprises an extension extending outwardly therefrom and [[a]] the tool steel is disposed on an end of said extension.
- (Currently Amended) The apparatus of Claim 6 wherein said robotic arm rotatably supports said positional pressure forming steel assembly.
- (Currently Amended) The apparatus of Claim 7 wherein said positional
 pressure forming steel assembly further comprises a second extension extending
 outwardly therefrom and a second tool steel disposed on an end of said second
 extension.

 (Previously Presented) The apparatus of Claim 6 wherein said extension comprises a tiered extension having a first tool steel disposed on an outer portion of said extension and a second tool steel disposed on an inner portion of said extension.

 (Currently Amended) The apparatus of claim [[1]] 40 wherein said robotic arm rotatably supports said positional pressure-forming steel assembly.

Claims 14-17 (Cancelled)

- (Currently Amended) The apparatus of Claim [[14]] 50 wherein said biasing element is a spring.
- 19. (Currently Amended) The apparatus of Claim [[14]] 46 wherein said positional pressure forming steel and joining assembly comprises an extension extending outwardly therefrom and [[a]] the tool steel disposed on an end of said extension.
- (Currently Amended) The apparatus of claim 19 wherein said robotic arm rotatably supports said positional-pressure forming and joiningsteel assembly.

- 21. (Currently Amended) The apparatus of Claim 20 wherein said positional pressure-forming steel and joining assembly further comprises a second extension extending outwardly therefrom and a second tool steel disposed on an end of said second extension.
- 22. (Previously Presented) The apparatus of Claim 19 wherein said extension comprises a tiered extension having a first tool steel disposed on an outer portion of said extension and a second tool steel disposed on an inner portion of said extension.

Claims 23 - 25 (Cancelled)

 (Currently Amended) The apparatus of claim [[14]] 46 wherein said robotic arm rotatably supports said positional pressure-forming and joiningsteel-assembly.

Claims 27 – 34 (Cancelled)

- 35. (Currently Amended) The apparatus of Claim [[10]] 45 wherein said forming steel assembly further comprises :
- ——an extension extending outwardly from said hub-positional pressure unit in a direction perpendicular to an axis of rotation of said roller; and
 - ------a_, wherein the tool steel is disposed on an end of said extension.

- 36. (Currently Amended) The apparatus of claim [[35]] 40 wherein said tool steel has a wedged face shape-tapered, wedge-shaped face formed thereonin a face thereof
- 37. (Currently Amended) The apparatus of Claim [[14]] 51 wherein said forming steel-and joining assembly further comprises an extension extending outwardly from said hub positional pressure unit in a direction perpendicular to an axis of rotation of said roller and supporting said teels tool steel on an end of said extension.
- 38. (Currently Amended) The apparatus of claim [[38]] <u>46</u> wherein said tool steel has a wedged face shape-tapered, wedge-shaped face formed thereonin a face thereof.
 - 39 (Cancelled)
 - (New) An apparatus for short flange forming, the apparatus comprising:
 a nest for holding a first sheet material;
 - a robotic arm operatively associated with said nest; and
- a forming steel assembly including a tool steel fixedly attached at an end of the robotic arm, the tool steel having a wedge-shaped face generally conforming to a short flange for crash forming the short flange on the first sheet material.

- 41. (New) The apparatus of claim 40 further comprising a mechanical positioner coupled to the forming steel assembly for stabilizing the tool steel during crash forming impact.
- 42. (New) The apparatus of Claim 41 wherein the mechanical positioner includes a positional pressure unit operatively associated with the robotic arm and cooperative with the nest for stabilizing the tool steel during crash forming impact.
- 43. (New) The apparatus of Claim 42 wherein the positional pressure unit further comprises a cylinder and a hub supported within said cylinder for relative sliding movement.
- (New) The apparatus of Claim 43 further including a biasing element interposed between said cylinder and said hub.
- 45. (New) The apparatus of Claim 42 wherein the mechanical positioner includes a roller supported on the positional pressure unit and a guide surface extending from the nest parallel with an approach path of the forming steel assembly.

46. (New) An apparatus for forming and joining a first sheet material to a second sheet material, the first sheet material having a periphery, the periphery having a contour, the apparatus comprising:

a nest including a material-contacting portion for holding the first sheet material;

a forming and joining assembly operatively associated with said nest, said assembly including a robotic arm and a tool steel fixedly attached at an end of the robotic arm, the tool steel having a wedge-shaped face generally conforming to a short flange for crash forming the short flange and bending the short flange onto said second sheet material between the tool steel and the material contacting portion; and

a computer having a tool-driving program operatively associated with the forming and joining assembly for manipulating and guiding the tool steel along an approach path during crash forming impact.

- 47. (New) The apparatus of claim 46 further comprising a mechanical positioner coupled to the forming steel assembly for stabilizing the tool steel during crash forming impact.
- 48. (New) The apparatus of Claim 47 wherein the mechanical positioner includes a positional pressure unit operatively associated with the robotic arm and cooperative with the nest for stabilizing the tool steel during crash forming impact.

- 49. (New) The apparatus of Claim 48 wherein the positional pressure unit further comprises a cylinder and a hub supported within said cylinder for relative sliding movement.
- (New) The apparatus of Claim 49 further including a biasing element interposed between said cylinder and said hub.
- 51. (New) The apparatus of Claim 48 wherein the mechanical positioner includes a roller supported on the positional pressure unit and a guide surface extending from the nest parallel with the approach path.